

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-35. (Canceled)

36. (Currently Amended) A printer formatter comprising:
a processor to perform at least one ~~a~~ first print function associated with a print job;
a system input/output (I/O) associated with the processor to receive an input signal and provide an output signal;
a formatter controller module configured to perform at least one ~~a~~ first formatting function associated with the print job using the processor;
a print server module configured in communication with the processor, to manage a print queue using the processor; and
a substrate including a microchip comprising the processor, the system I/O, the formatter controller module, and the print server module.

37.-38. (Canceled)

39. (Previously Presented) The printer formatter of claim 36 wherein the microchip is configured to function within a printer.

40. (Previously Presented) The printer formatter of claim 36 wherein the system I/O is configured to receive the print job.

41. (Currently Amended) The printer formatter of claim 36 wherein the formatter controller module is configured to convert the print job from a first format to a second format.

42. (Currently Amended) The printer formatter of claim 36 wherein the formatter controller module is configured to compress the print job or de-compress the print job.

43. (Cancelled)

44. (Previously Presented) The printer formatter of claim 36 wherein the system I/O is configured to generate an I/O interrupt in response to receiving the input signal, and the processor is configured to perform an I/O function in response to receiving the I/O interrupt.

45. (Previously Presented) The printer formatter of claim 44 wherein the I/O function includes receiving and storing the print job.

46. (Currently Amended) The printer formatter of claim 44 wherein the I/O function includes providing an indication to the print server module that the print job has been received.

47. (Currently Amended) The printer formatter of claim 36 wherein the print server module is configured to generate a print server interrupt in response to detecting the print job, and the processor is configured to interrupt the at least one print function and perform a print server function in response to receiving the print server interrupt.

48. (Previously Presented) The printer formatter of claim 36 wherein the processor is configured to store the print job in the print queue.

49. (Previously Presented) The printer formatter of claim 36 wherein the processor is configured to provide a print job status notification.

50. (Previously Presented) The printer formatter of claim 36 wherein the processor is configured to provide a print job complete notification.

51. (Previously Presented) The printer formatter of claim 36 wherein the processor is configured to provide a print error notification.

52. (Previously Presented) The printer formatter of claim 36 wherein the processor is configured to remove the print job from the print queue in response to a cancel signal.

53.-61. (Cancelled)

62. (New) A method comprising:

receiving a first print job;

performing, using a processor, at least one print function associated with the first print job;

receiving a second print job;

generating a print server interrupt in response to the second print job;

interrupting the processor from the at least one print function associated with the first print job; and

performing, using the processor, at least one print server function associated with the second print job.

63. (New) The method of claim 62, wherein the at least one print function includes conversion of the first print job from a first format to a second format, compression of the first print job, or decompression of the first print job.

64. (New) The method of claim 62, wherein the at least one print server function includes managing a print queue.

65. (New) The method of claim 62, wherein the at least one print server function includes storing the second print job in a queue, sending a status notification of the second print job, or sending an error notification regarding the second print job.

66. (New) The method of claim 62, wherein the at least one print server function includes removing a third print job from the print queue in response to a cancel signal.

67. (New) The method of claim 62, wherein the first print job is received from a first host and the second print job is received from a second host.